S.E.M.T. Pielstick

Common Rail

Retrofit

Common Rail ensures more efficient fuel distribution

Common Rail is an advanced fuel injection technology found within diesel engines. It functions by continuously pressurizing fuel in a small reservoir known as the common rail, from which it distributes precise amounts of fuel into each individual injector.

Engines
The system is designed for the S.E.M.T. Pielstick PC2-5 and PC2-6B600.

Everllence

PrimeServ

Common Rail

Retrofit

Description

The fuel is pumped from the tank to the injection pump, where it is compressed. It is then sent to the accumulator, which distributes the high-pressure fuel to the injectors. The injectors deliver the fuel directly into the combustion chamber. The Common Rail system uses valves, regulators, and sensors to control and optimize fuel injection.

Benefits

- Reliability
- Durability
- Increased energy efficiency
- Flexibility in engine design

Main features

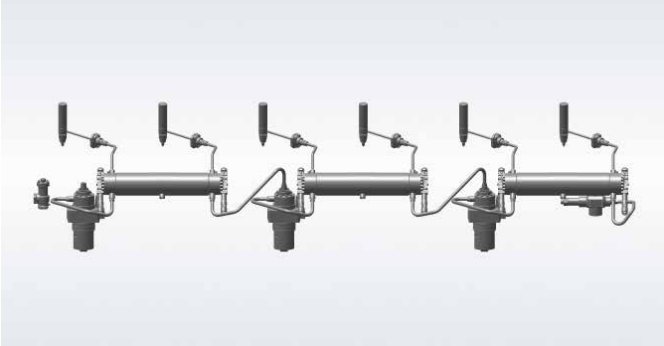
- **Consistently high injection pressure:** ensure good combustion, high efficiency and low soot emissions.
- **Precise map-based injection timing:** reduces fuel consumption, vibration, noise and extends component life.
- **Continuous cylinder pressure monitoring option:** better balancing of injection for all cylinders, fur-ther improving fuel consumption, noise and vibration.

CR system components

- Injectors
- High pressure pump
- High pressure accumulator
- Sensors (pressure, temperature)
- Electronic Control Unit (ECU): SaCoS solution

Advantages

- Reduction of emissions
- Improved performance
- Precise control of injection
- Reduction in fuel consumption
- Reduction of noise and vibration
- High and stable injection pressure



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